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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/722,547	11/28/2003	Hoi-Sing Kwok	016660-189	8365	
21839 759	00 12/27/2006 GERSOLL & ROONEY	EXAMINER			
POST OFFICE B	OX 1404	CALEY, MICHAEL H			
ALEXANDRIA,	VA 22313-1404		ART UNIT	PAPER NUMBER	
			2871		
SHORTENED STATUTORY P	ERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONT	THS	12/27/2006	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/722,547	KWOK ET AL.				
		Examiner	Art Unit				
		Michael H. Caley	2871				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHOWHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RICHEVER IS LONGER, FROM THE MAILIN asions of time may be available under the provisions of 37 CI SIX (6) MONTHS from the mailing date of this communication, period for reply is specified above, the maximum statutory pre to reply within the set or extended period for reply will, by seply received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS CON FR 1.136(a). In no event, howeven on. Period will apply and will expire SII statute, cause the application to b	IMUNICATION.  If, may a reply be timely filed  ( (6) MONTHS from the mailing date of this ecome ABANDONED (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on	11 October 2006.					
,	<u> </u>	This action is non-final.					
•—	Since this application is in condition for all	owance except for form	al matters, prosecution as to th	ne merits is			
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠	Claim(s) <u>1-16</u> is/are pending in the applica	ation.		•			
	4a) Of the above claim(s) <u>1,2,4 and 6-14</u> is/are withdrawn from consideration.						
	Claim(s) 5, 15, 16 is/are allowed.						
6)🖂	6)⊠ Claim(s) <u>3</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[	Claim(s) are subject to restriction a	ind/or election requirem	ent.				
Applicati	on Papers						
9)□	The specification is objected to by the Exa	miner.					
10)🖂	The drawing(s) filed on 28 November 2003	3 is/are: a)⊠ accepted	or b)  objected to by the Exa	miner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	•						
Attachmen	t(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date							
	Notice of Informal Details Application						
	Paper No(s)/Mail Date 6) Other:						

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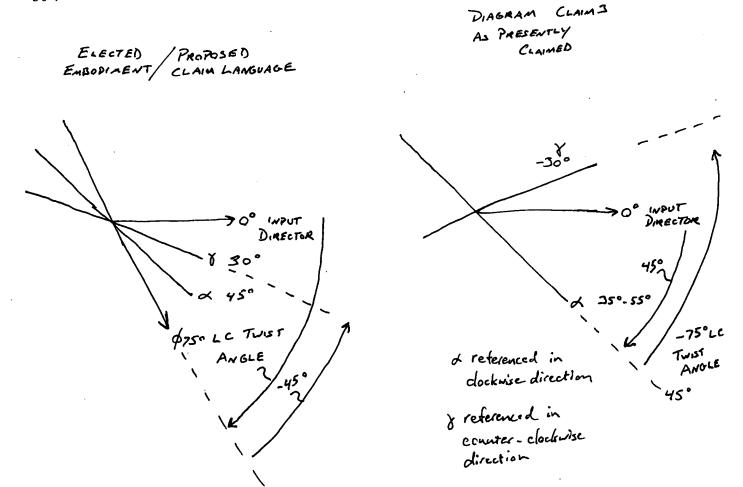
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### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Item (b) of claim 3 is inconsistent with the elected embodiment. In order to be consistent with the elected embodiment in which  $\gamma$  is 30°, the claim language should read "the output polarizer angle  $\gamma$  is at an angle of the twist angle of the liquid crystal cell minus 45°". Given that the elected embodiment comprises a twist angle of 75°, subtracting 45° would result in a  $\gamma$  of 30°.



Presently, the claim language implies γ as -30°. On Page 2 of the response filed on 10/11/06, Applicant states "It is respectfully submitted that the claims encompass either direction of rotation. The particular direction of rotation is not relevant. As long as one uses a *consistent* reference direction for all measurements, whether clockwise or counter-clockwise, the results would be the same" (emphasis added in italics). When the component angles are diagramed as shown above according to claim 3, the component angles cannot be arranged according to a single *consistent* reference direction as claimed.

On page 2 of Remarks, Applicant states "In response to the question presented in the Office Action, the angle values presented in the specification represent absolute values." While the examiner accepts that the claimed values may encompass either direction, the angle values presented in the specification cannot represent absolute values. Embodiments 3 and 8 (pages 9 and 11) each contain negative figures for angle values. By definition, an absolute value cannot be negative. The examiner does acknowledge, however, that an angle value can be referenced as clockwise or counter-clockwise so long as the reference direction is consistent for all angles.

#### Allowable Subject Matter

Claims 5, 15, and 16 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art fails to disclose or suggest a liquid crystal display having a liquid crystal cell input director, input polarizer transmissive axis, and output polarizer transmissive axis

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oriented in relation to one another as proposed in which the liquid crystal cell has the proposed twist angle and product of cell gap and birefringence.

### Response to Arguments

Applicant's remarks filed 10/11/06 have been fully considered and are helpful in ascertaining the scope of each of claims 5, 15, and 16. They are not persuasive, however, to overcome the rejection of claim 3, as discussed above.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael H. Caley whose telephone number is (571) 272-2286. The examiner can normally be reached on M-F 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael H. Caley December 21, 2006

mhc

A While
INDREW SCHECHTER
PRIMARY EXAMINER